

From glowbugs@theporch.com Wed Mar 27 19:48:47 1996  
Return-Path: glowbugs@theporch.com  
Received: from uro (localhost.theporch.com [127.0.0.1]) by uro.theporch.com  
(8.7.5/AUX-3.1.1) with SMTP id TAA02837; Wed, 27 Mar 1996 19:48:15 -0600 (CST)  
Date: Wed, 27 Mar 1996 19:48:15 -0600 (CST)  
Message-Id: <199603280148.TAA02837@uro.theporch.com>  
Errors-To: ws4s@midtenn.net  
Reply-To: glowbugs@theporch.com  
Originator: glowbugs@theporch.com  
Sender: glowbugs@theporch.com  
Precedence: bulk  
From: glowbugs@theporch.com  
To: Multiple recipients of list <glowbugs@theporch.com>  
Subject: GLOWBUGS digest 143  
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@theporch.com  
Status: 0

#### GLOWBUGS Digest 143

Topics covered in this issue include:

- 1) Re: TUBES  
by mjsilva@ix.netcom.com (michael silva)
- 2) looking for key & code osc.  
by robert fowle <hammarlund@voyager.net>
- 3) Re: BA Net  
by rdkeys@csemail.cropsci.ncsu.edu
- 4) Bending a Dipole  
by "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>
- 5) Re: Bending a Dipole  
by "Dennis L. Wade" <dwade@arb.ca.gov>

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Date: Tue, 26 Mar 1996 18:20:49 -0800  
From: mjsilva@ix.netcom.com (michael silva)  
To: mjsilva@ix.netcom.com  
Subject: Re: TUBES  
Message-ID: <199603270220.SAA13414@dfw-ix1.ix.netcom.com>

>My Uncle sent me some boxes of stuff...over 100 tubes in these boxes  
>along with coils, var. caps, old resistors, knobs, wire and stuff.

Good start! Time to get on the air "for Unc's sake"

>How do I find out if any of this stuff is any good (the tubes appear  
>to be new and in their original boxes)?

If you get into tubes you'll want to pick up a tube tester, but until then you can either find somebody else who has one or trust to luck (and your eyeballs, oh, and a continuity checker for the filaments).

>More to the point - what tubes should I be looking for to build something that glows in the dark and lets me talk to some misterous >stranger in some faraway place?

Good question. For transmitters, the answer is happily "almost anything". You should pick up a tube manual (Antique Electronic Supply sells reprints of both the 1959 RCA Rx manual and the 1973 GE manual). Just about any small/medium triode/pentode/beam tube will work as an oscillator and/or buffer. Past favorites include the 6SK7, 6AG7, 12BY7, 6AU6 and 5763. Audio tubes such as the 6V6, 6K6, 6F6, 6CL6, 6AQ5, etc were also popular. Moving up to the power output stage (although of course any tube can be a power output stage, within it's ratings), the bigger audio tubes are good bets, including the 6L6 (bow in homage), 12/25/35/50L6 (these are -not- different-voltage 6L6s) 6F6, 6V6, etc. TV sweep (horizontal output) tubes will also do good duty as power amplifiers. There must be hundreds of types of these, with the 6BQ6 and 6DQ5 being a few that come to mind. After that you're into transmitting tubes such as the 2E26, 6146 and 807. Again, though, you can make a transmitter out of almost -any- tube (with gain -- forget those TV damper diodes <g>). Others will no doubt come up with different lists of favorite tubes. You can get a good idea of the power ratings just from the size of the tube, especially if you can actually see the size of the plate. Tell us what you have and we'll let you know what the good candidates are.

For receivers things aren't quite so loose. You'll want to use appropriate RF, low-power audio and audio-output tubes in the respective stages of your receiver for best results, at least until you get a better idea of what a given tube is capable of doing. Still, I'm sure you've got the makings of a receiver or two in those goodie-boxes.

>

>Are there any books that would help?

Any ARRL Handbooks or Radio Handbooks (E&E/Orr) from the glowing past through about 1970 will be a gold mine. Also any ham magazines from that era. After we find out what you've got and what you're hankering to build I'm sure a few schematics will head themselves off to your mailbox. Best of luck.

73,  
Mike, KK6GM

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Date: Wed, 27 Mar 1996 07:51:20 -0500 (EST)  
From: robert fowle <hammarlund@voyager.net>  
To: boatanchors@theporch.com  
Cc: glowbugs@theporch.com, ham-tech@netcom.com  
Subject: looking for key & code osc.  
Message-ID: <199603271251.HAA16540@vixa.voyager.net>

i gonna try the code again, and am in need of:

- A. key or paddles
- B. code practice oscillator

if you have either for sale or trade, please drop me a line.

thanks in advance.]

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Robert Fowle  
The HAMMARLUND Historian  
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HAMMARLUND LITERATURE WANTED

WANTED: MANUALS FOR ANY MAKE RADIO EQUIPMENT

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Date: Wed, 27 Mar 1996 12:01:21 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
To: pbock@melpar.esys.com  
Cc: boatanchors@theporch.com, glowbugs@theporch.com  
Subject: Re: BA Net  
Message-ID: <9603271701.AA112262@csemail.cropsci.ncsu.edu>

>  
> OK, brass pounders, I got my Digi-Key BA/Color Burst crystal  
> and got the ol' Adventurer on last nite with Paul, K9NO (running  
> one of them "after-market" Adventurer clones called a Knight  
> T-50). Signals were FB (abt 5-6-9 wid lttl QRN), but where wuz  
> everybody else?  
> Paul, K4MSG

Ol' Boatanchor Bob has been hot and heavy with a big project at the tinkertoythinkustankus, so I have been tardy for a while. But, that

project is over now, so I am gettin' itchy fingers ta rattle an' bang  
with the boys on the ol' brass monkey.....

.... aye there mateys, grapples ye yer tin cans atop yer noggins,  
an keeps yer sendin' irons at the fore.....

QRG 3579.545 QTR 0300/0400/0500/0600 UTC

BV OM  
DE NA4G  
UP

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Date: Wed, 27 Mar 1996 12:45:21 -0700 (MST)  
From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>  
To: Glowbugs <glowbugs@theporch.com>  
Subject: Bending a Dipole  
Message-ID: <Pine.SV4.3.91.960327124329.16228B-100000@mesa5.mesa.colorado.edu>

Does anyone know how bending a dipole's legs at right angles to each  
other (kind of like a "Vee" antenna with both legs in a horizontal plane)  
affects its performance and its impedance?

Jim W0KSD

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Date: Wed, 27 Mar 1996 13:19:27 +0000  
From: "Dennis L. Wade" <dwade@arb.ca.gov>  
To: jrybak@mesa5.mesa.colorado.edu  
Cc: glowbugs@theporch.com  
Subject: Re: Bending a Dipole  
Message-ID: <199603272137.PAA12508@uro.theporch.com>

Hmmmm, let's see if I can remember....

I think that, as you bring in the legs toward each other, the  
antenna's centerpoint impedance will tend to drop. If the angle  
formed in the middle becomes less than 90 degrees, the legs will look  
more and more like a transmission line, and not an antenna.

If this is taking place in the horizontal plane, it just seems that the  
height above ground would be the most important factor.

I really have no idea what pattern effects that kind of configuration would have. I'm sure it won't be what you might think :).

I know this is something less than precise, but that's what makes antenna work fun, right?

What you may be describing are the beginnings of a V-beam? Check with the ARRL handbook and/or Antenna book.

Good luck,  
Dennis  
KG6ZI  
You wrote:

Does anyone know how bending a dipole's legs at right angles to each other (kind of like a "Vee" antenna with both legs in a horizontal plane) affects its performance and its impedance?

Jim W0KSD

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End of GLOWBUGS Digest 143  
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